



//Nxu/tex3/talk/2005/RNC planning

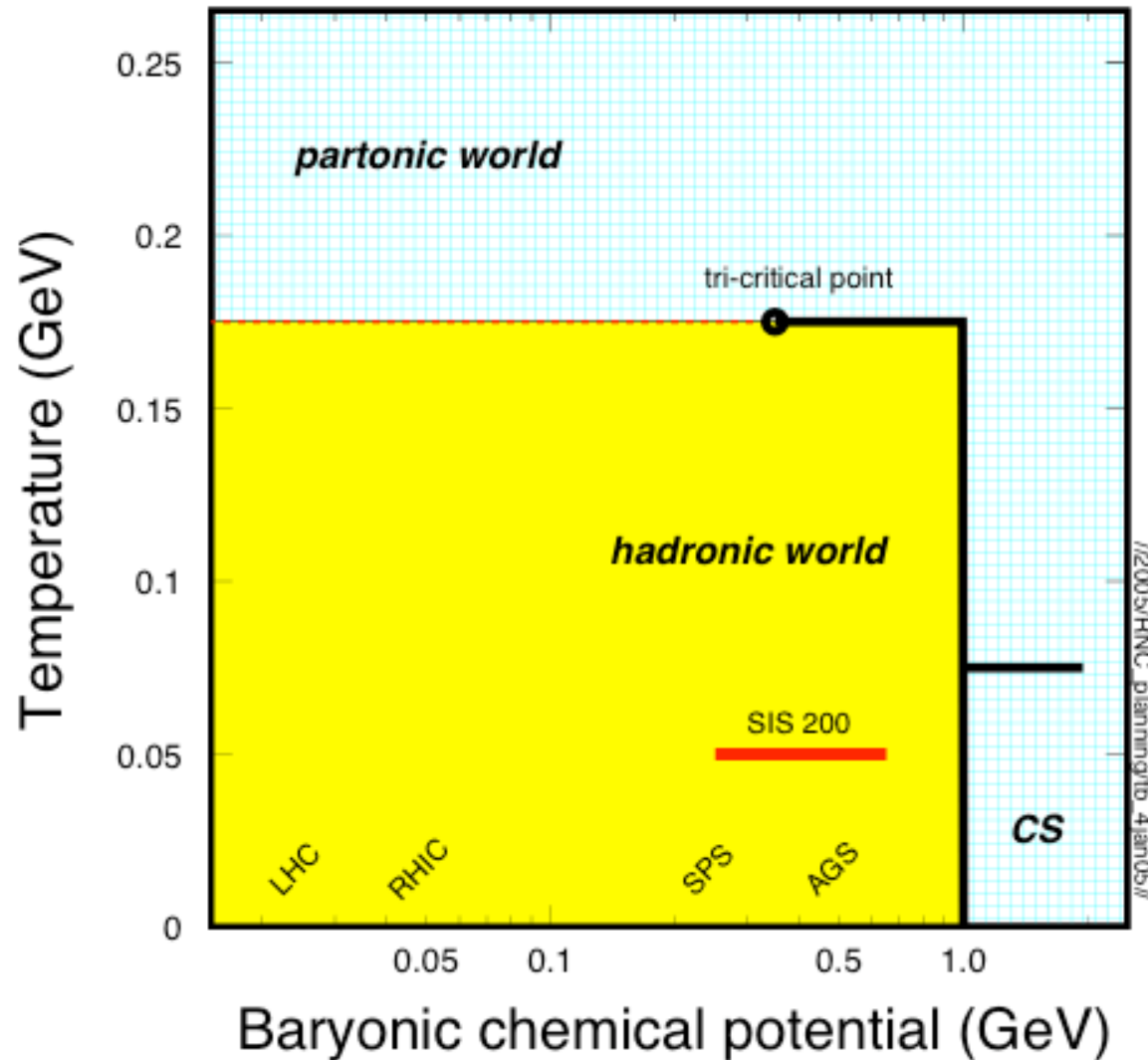
Key Issues for EoS Program

Identify the bulk-matter with partonic degrees of freedom

Study the properties of the partonic matter

Demonstrate the transition between partonic and hadronic worlds

Nuclear Phase Diagram



The location of the tri-critical point is highly uncertain - experimental inputs are essential.

RHIC seems to be in the region of 'fast' cross-over.

To 'see' the transition from hadronic world to partonic world, one must cross the 'boundary' - **energy scan at the region below RHIC energies.**



Key Observables

- 1) Energy scan: correlation/ fluctuation analysis
- 2) Energy scan: vector meson measurements with both hadronic and leptonic channels
- 3) Energy scan: event anisotropy for π , K, p, and multi-strange hadrons ϕ , Ξ , Ω
- 4) Comparison: SIS, SPS and RHIC results